WEGA V 4810USA Model Canada Model

> UK Model AEP Model



Discard TA-5650 service manual previously issued for UK and AEP Models.

This service manual contains former information.

INTEGRATED STEREO AMPLIFIER

SPECIFICATIONS

GENERAL

Power Requirements:

120 V ac, 60 Hz (USA and Canada

Model)
110, 127, 220 or 240 V ac adjustable,
50/60 Hz (UK and AEP Model)

Power Consumption:

160 W (USA Model)

320 VA (Canada Model) 440 W (UK and AEP Model)

Dimensions:

Approx. 460(w) x 168(h) x 323(d) mm $18^{1}/8$ (w) x $6^{5}/8$ (h) x $12^{3}/4$ (d)

inches

Including projecting parts

and controls

Weight:

Approx. 13.4 kg, 29 lb 9 oz (net) Approx. 16 kg, 35 lb 4 oz (in shipping

carton)

POWER AMPLIFIER SECTION

Continous RMS

Power Output: (less than 0.1 % THD, both channels driven

At 1 kHz 60 + 60 W (8 Ω) 50 + 50 W (4 Ω) At 20 Hz – 20 kHz

simultaneously)

50 + 50 W (8 Ω)

according to DIN 45500 55 + 55 W (8 Ω)

Dynamic Power

Output:

160 W (8 Ω) 140 W (4 Ω)

(IHF constant power

supply method)

Power Bandwidth

5 - 40,000 Hz

Harmonic Distortion:

Less than 0.1 % at rated output Less than 0.08 % at 1 W output

IM Distortion: (60 Hz: 7 kHz = 4:1)

Less than 0.1 % at rated output Less than 0.08 % at 1 W output

Frequency Response

 $2 Hz - 100 kHz_{-2}^{+0} dB$

(at 1 W output):

S/N Ratio:

Greater than 110 dB, short-circuited

input

Residual Noise:

Less than 0.02 μ W (8 Ω)

Damping Factor:

50 (8 Ω , at 1 kHz)

Inputs:

POWER INPUT

Sensitivity 1 V RMS (for rated

output), impedance 50 k Ω

Outputs:

SPEAKER terminals A, B Accept speakers of 4 Ω or more HEADPHONES jack

Accepts low-and high-impedance

stereo headphones

- continued on page 2 -

0 dB = 0.775 V

SONY SERVICE MANUAL 98

PREAMPLIFIER SECTION

Harmonic Distortion:

Less than 0.05 % at rated output Less than 0.05 % at rated output

IM Distortion: $(60 \, \text{Hz} : 7 \, \text{kHz} = 4 : 1)$

Frequency Response:

PHONO 1, 2 RIAA equalization ±0.5 dB

TUNER AUX 1, 2, 3 TAPE 1, 2 REC/PB (input) EXT ADPT 1, 2

10 Hz -100 kHz⁺⁰₋₂ dB (TONE: CANCEL)

(input)

Tone Controls: BASS:

±10 dB at 50 Hz (TURNOVER 250 Hz) ±10 dB at 100 Hz (TURNOVER 500 Hz) TREBLE:

±10 dB at 10 kHz (TURNOVER 2.5 kHz) ±10 dB at 20 kHz (TURNOVER 5 kHz)

Filters: LOW:

12 dB/octave attenuation below 30 Hz

HIGH:

12 dB/octave attenuation above 9 kHz

Loudness switch: (att. 30 dB)

+ 10 dB at 50 Hz +3dB at 10kHz

Input	s:
-------	----

	Sensitivity	Impedance	Maximum input capability*	S/N (weighting network)
PHONO 1, 2	2.5 mV	50 k ohms	300 mV	greater than 70 dB (B)
AUX 1, 2, 3 TAPE 1, 2 REC/PB (input) EXT ADPT 1, 2(input)	150mV	250k ohms		greater than 90 dB (A)

^{*} The maximum input capability is measured at a 0.05% harmonic distortion.

Outputs:

	Output voltage	Impedance
REC OUT 1, 2	150 mV	4.7 k ohms
PRE OUTPUT	1 V	1 k ohm
REC/PB	17 mV	82 k ohms
EXT ADPT 1, 2	150 mV	4.7 k ohms

Specification Labels:

USA Model

SON	Y®

INTEGRATED STEREO AMPLIFIER MODEL NO. TA - 5650 AC 120V 60Hz 160W SERIAL NO. MADE IN JAPAN

Canada Model

SONY

INTEGRATED STEREO AMPLIFIER MODEL NO. TA - 5650 1207 320VA 60Hz SERIAL NO. MADE IN JAPAN

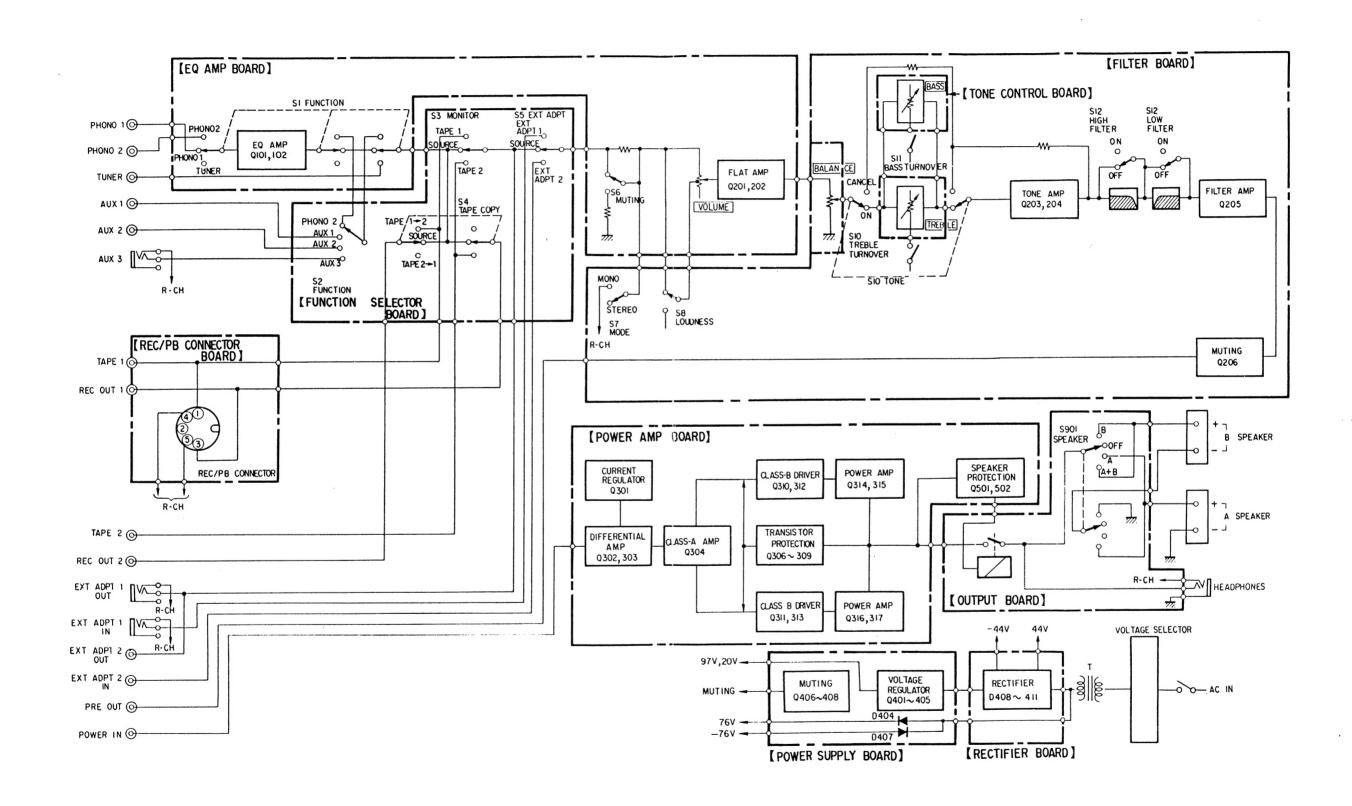
UK and AEP Models

SONY

INTEGRATED STEREO AMPLIFIER MODEL NO. TA-5650 AC 110.127.220.240V~ 50/60Hz 440W SERIAL NO. MADE IN JAPAN

Note: * UK Model: Serial No. 600,001 and later AEP Model: Serial No. 500,001 and later

SECTION 1
BLOCK DIAGRAM



4 -

SECTION 2 **ADJUSTMENT**

Note: Turn the power switch on and allow about five minutes for warm-up the set.

2-1. 20 V POWER VOLTAGE ADJUSTMENT

With no input signal, adjust RT401 so that the emitter voltage of Q403 becomes 20 V.

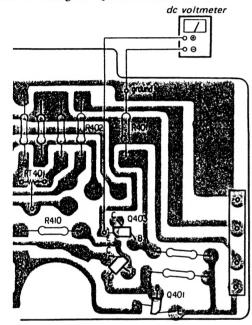


Fig. 2-1. 20 V power voltage adjustment

2-2. 97 V POWER VOLTAGE CONFIRMATION

After 20 V power voltage adjustment, confirm that the emitter voltage of Q401 shows 97 V ±3 V.

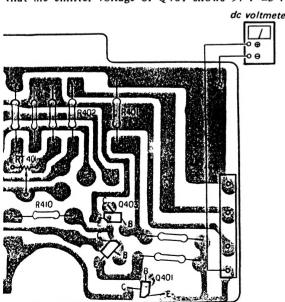


Fig. 2-2. 97 V power voltage confirmation

2-3. CONFIRMATION OF DC BALANCE **VOLTAGE**

- 1. Set the SPEAKER switch to "A" position.
- 2. Connect the dc voltmeter across the SPEAKER
- 3. Confirm that the dc voltage at SPEAKER OUT "A" shows 0V ± 50 mV.

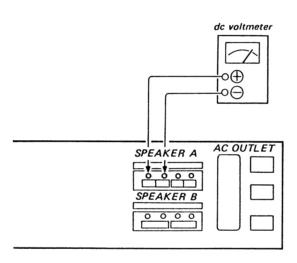


Fig. 2-3. Confirmation of dc balance voltage

2-4. DC BIAS ADJUSTMENT

Adjust RT301 and RT351 for 90 mV reading on the meter with no input signal.

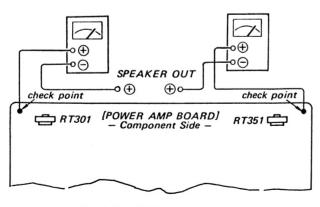


Fig. 2-4. DC bias adjustment



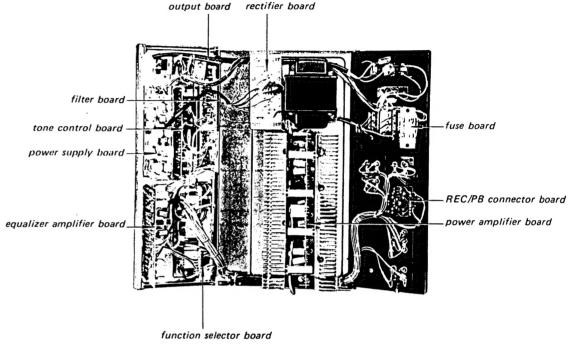


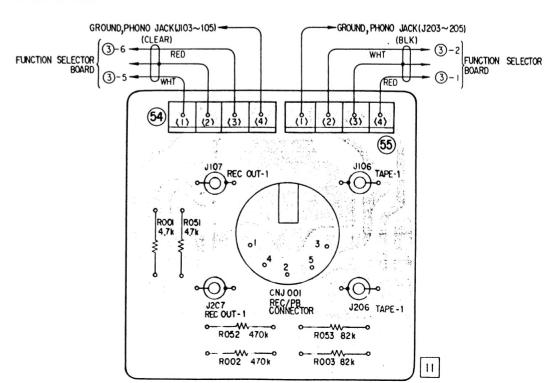
Fig. 2-5. Chassis layout

SECTION 3 MOUNTING AND SCHEMATIC DIAGRAMS

3-1. MOUNTING DIAGRAM - REC/PB CONNECTOR BOARD -

- Conductor Side -

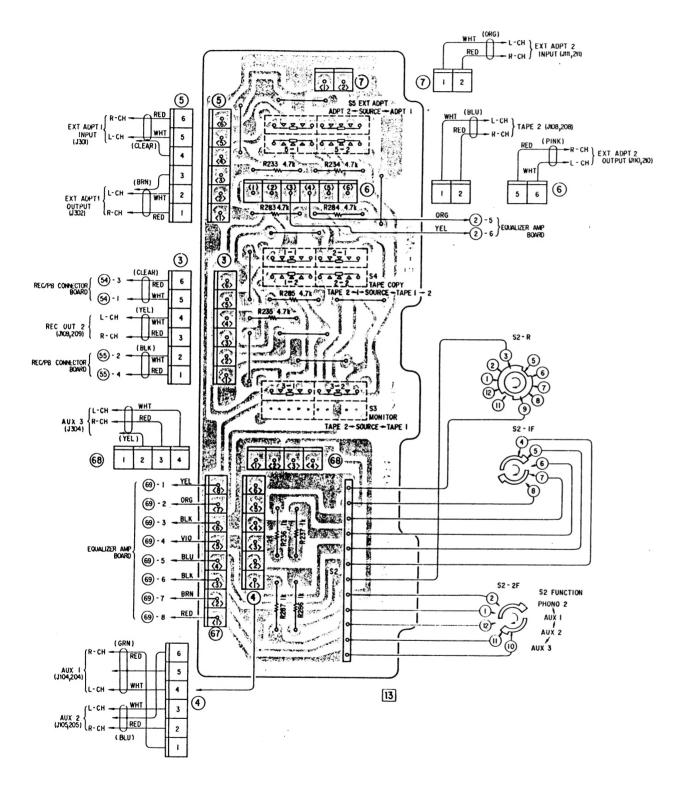
2-5. CHASSIS LAYOUT



><

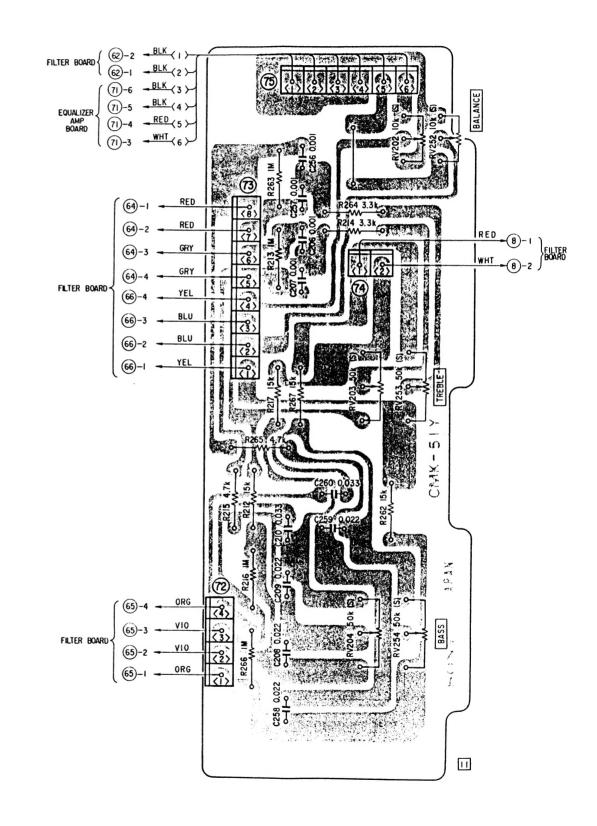
3-2. MOUNTING DIAGRAM - FUNCTION SELECTOR BOARD -

- Conductor Side -



3-3. MOUNTING DIAGRAM - TONE CONTROL BOARD -

- Conductor Side -



3-5. MOUNTING DIAGRAM - FILTER BOARD -

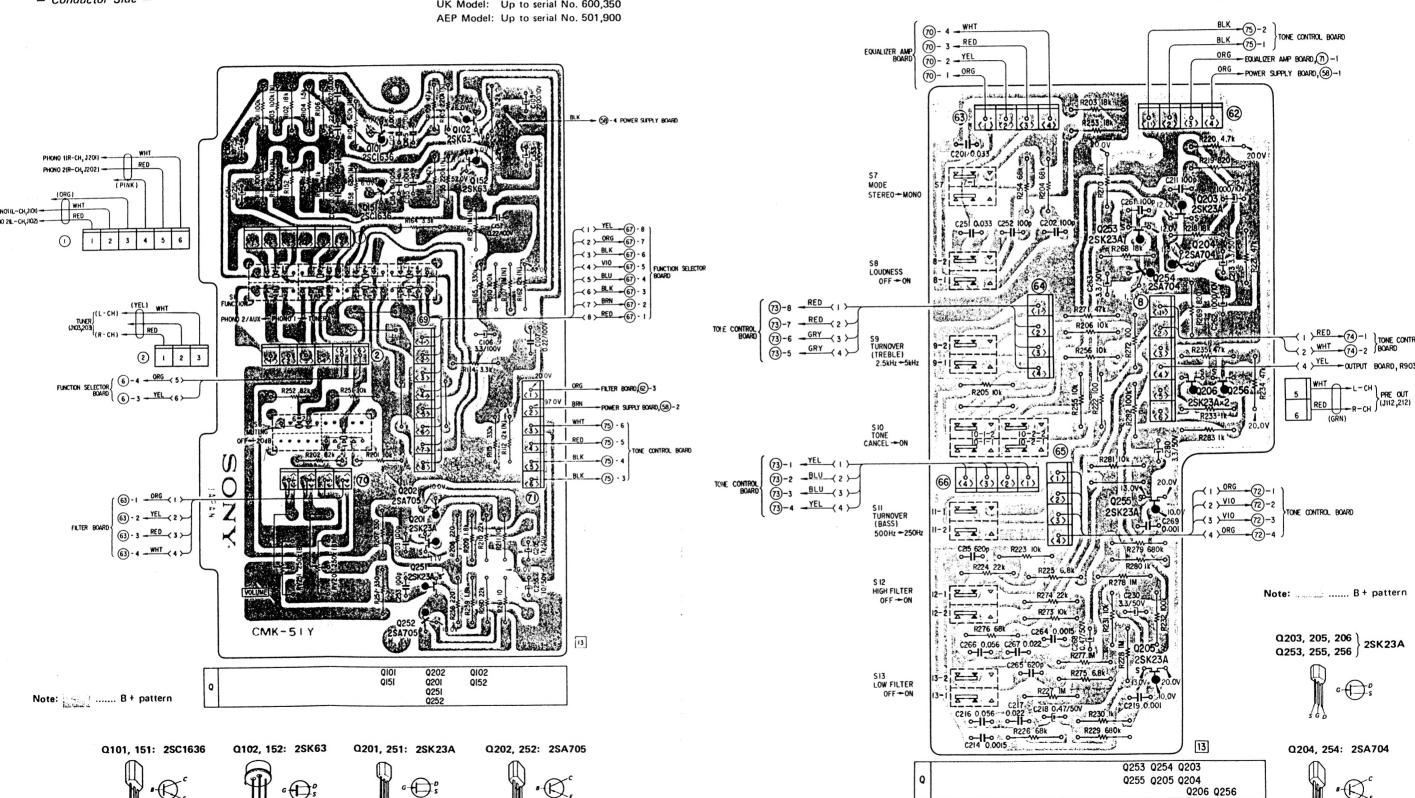
- Conductor Side -

UK Model: Up to serial No. 600,350 AEP Model: Up to serial No. 501,900

3-4. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

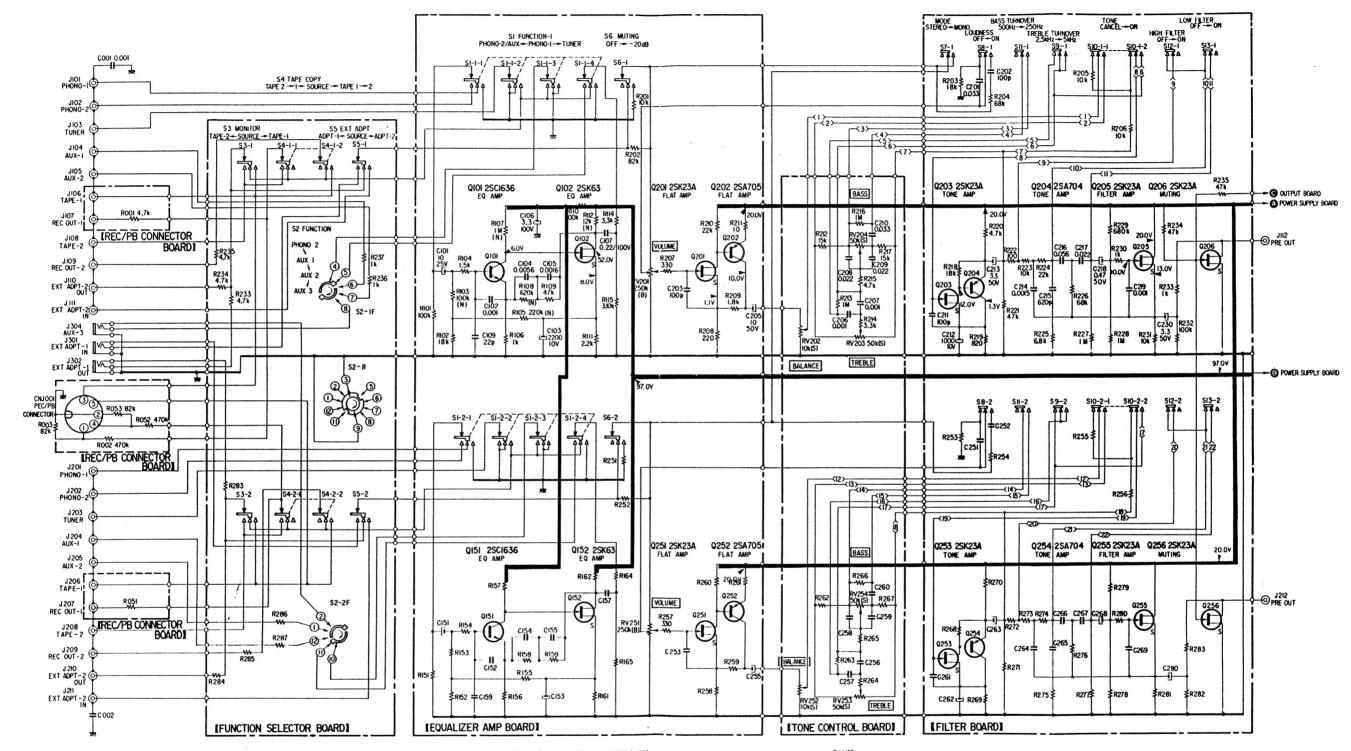
- Conductor Side -

UK Model: Up to serial No. 600,350



3-6. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -

UK Model: Up to Serial No. 600,350 AEP Model: Up to Serial No. 501,900



- S1----FUNCTION (PHONO I)
 S2---FUNCTION (PHONO 2)
 S3---MONITOR (SOURCE)
 S4---TAPE COPY (SOURCE)
 S5----EXT ADPT (SOURCE)

- S6----MUTING (OFF) S7----MODE (STEREO)
- S8 --- LOUDNESS (OFF)
 S9 --- TREBLE TURNOVER (2.5kHz)
 S10--- TOME (CANCEL)
 S11--- BASS TURNOVER (500Hz)
 S12---HIGH FILTER (OFF)
 S13---LOW FILTER (OFF)

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k All capacitance values are in µF except as indicated with p, which means $\mu\mu F$.

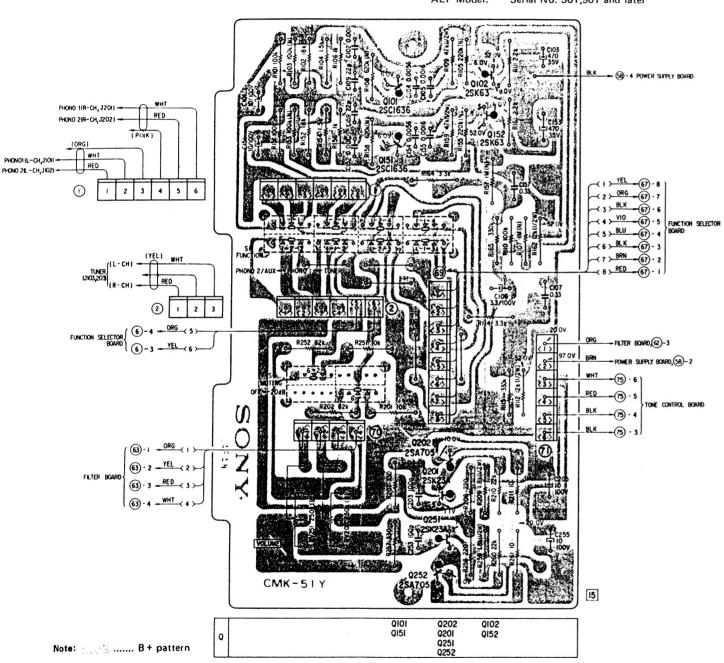
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in. Voltage variations may be noted due to normal production tolerances.



3-7. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

- Conductor Side -

USA Model: Serial No. 800,001 and later
Canada Model: Serial No. 700,001 and later
UK Model: Serial No. 600,351 and later
AEP Model: Serial No. 501,901 and later



Q101, 151: 2SC1636 Q102, 152: 2SK63 Q201, 251: 2SK23A Q202, 252: 2SA705



3-8. MOUNTING DIAGRAM — FILTER BOARD —

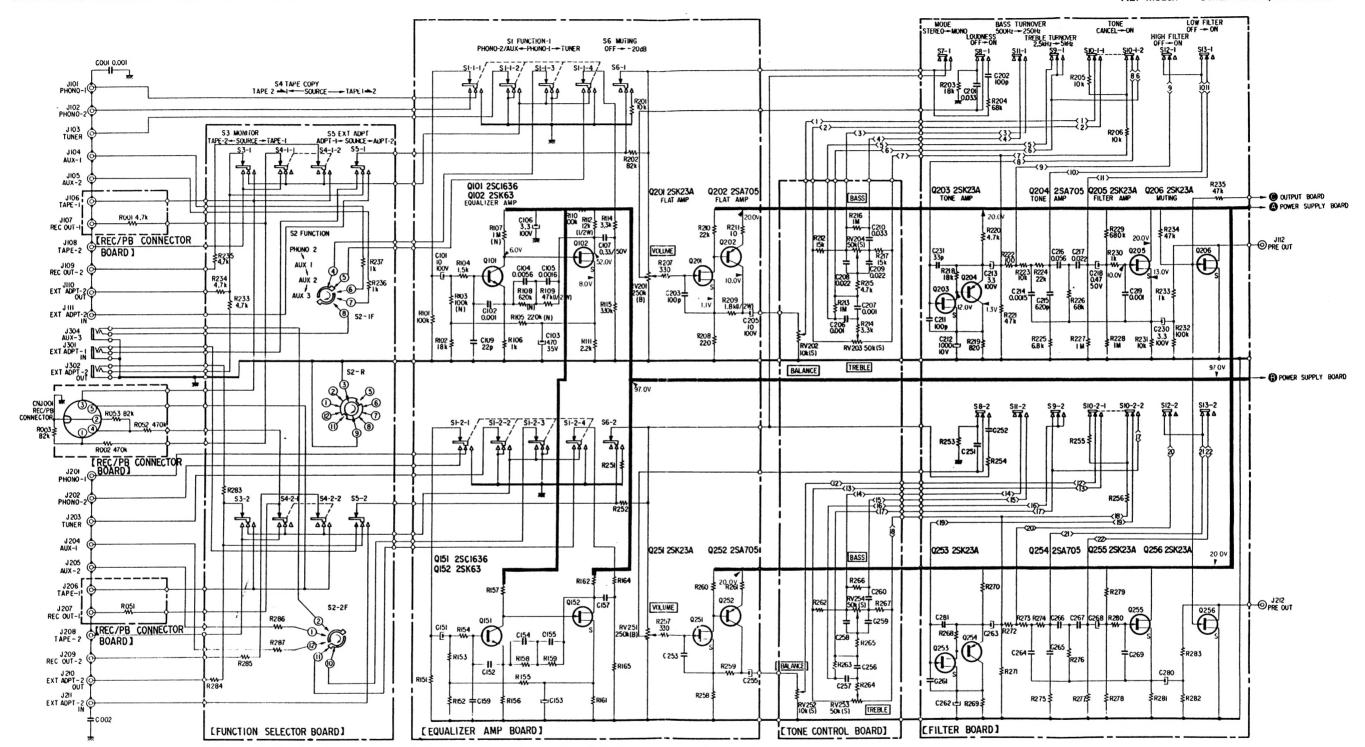
- Conductor Side -Canada Model: Serial No. 700,001 and later UK Model: Serial No. 600,351 and later AEP Model: Serial No. 501,901 and later TONE CONTROL BOARD ORG _EQUALIZER AMP BOARD, 71-1 ORG - POWER SUPPLY BOARD, 58-1 STEREO-MONO S8 LOUDNESS (3)-8 -RED (1) (73)-6 -GRY (3)-S9 TURNOVER (TREBLE) S 10 TONE CANCEL -ON (3)-1 -YEL (1)-(3)-2 -BLU (2)-(3)-3 -BLU (3)-(3)-4 -YEL (4)-(3) VIO -@-3 TONE CONTROL BOARD TURNOVER (BASS) -(4) ORG -(72)-4 R223 IOk HIGH FILTER Note: B+ pattern Q203, 205, 206 Q253, 255, 256 2SK23A S13 LOW FILTER Q204, 254: 2SA704 15

USA Model: Serial No. 800,001 and later

Q253 Q254 Q203 Q255 Q205 Q204

3-9. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -

USA Model: Serial No. 800,001 and later Canada Model: Serial No. 700,001 and later Serial No. 600,351 and later UK Model: AEP Model: Serial No. 501,901 and later



- S1····FUNCTION (PHONO I)
 S2····FUNCTION (PHONO 2)
 S3····MONITOR (SOURCE)
 S4····TAPE COPY (SOURCE)
 S5····EXT ADPT (SOURCE)
 S6····MITING (OFF)
 S7····MODE (STEREO)
- \$8 --- LOUDNESS (OFF)
 \$9 --- TREBLE TURNOVER (2.5kHz)
 \$10 --- TONE (CANCEL)
 \$11 --- BASS TURNOVER (500Hz)
 \$12 --- HIGH FILTER (OFF)
 \$13 --- LOW FILTER (OFF)

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k

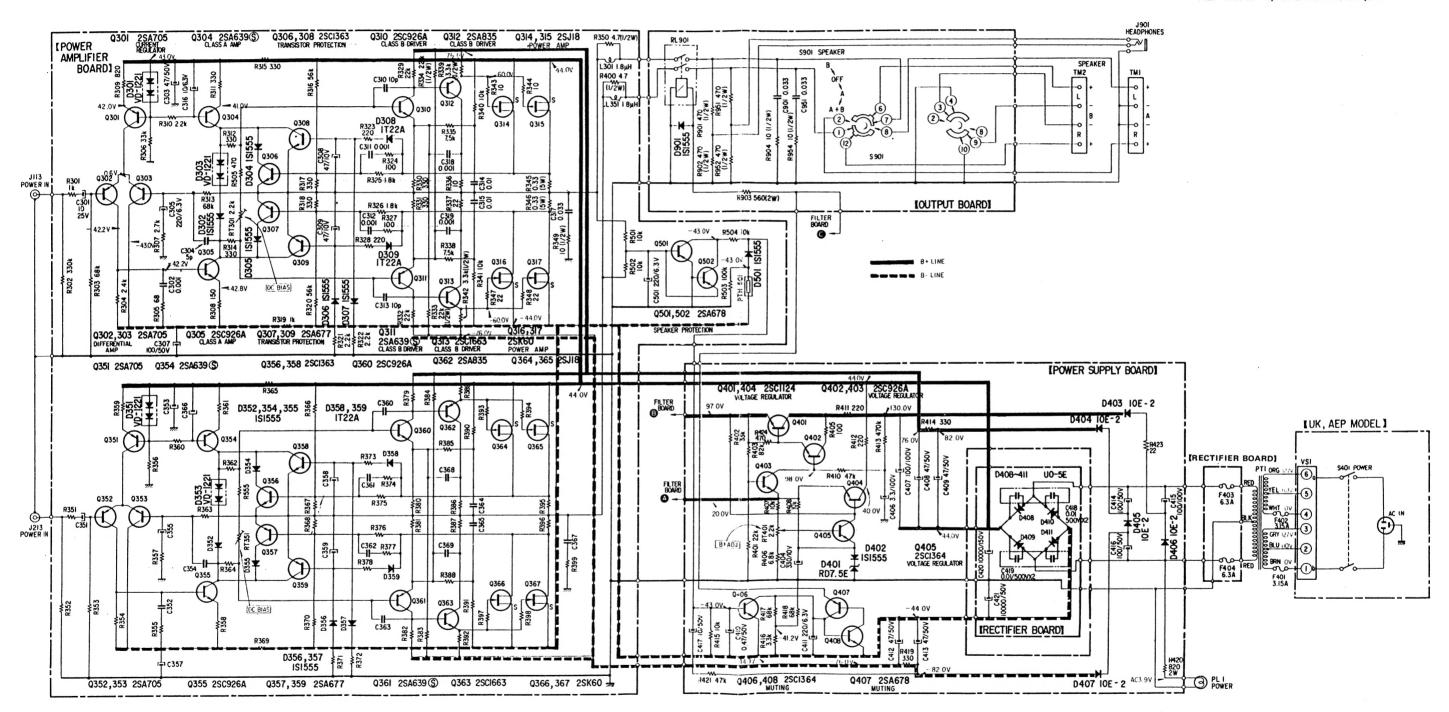
All capacitance values are in μF except as indicated with p, which means $\mu\mu F$.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

3-10. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

UK Model: Up to Serial No. 600,350 AEP Model: Up to Serial No. 501,900



Note:

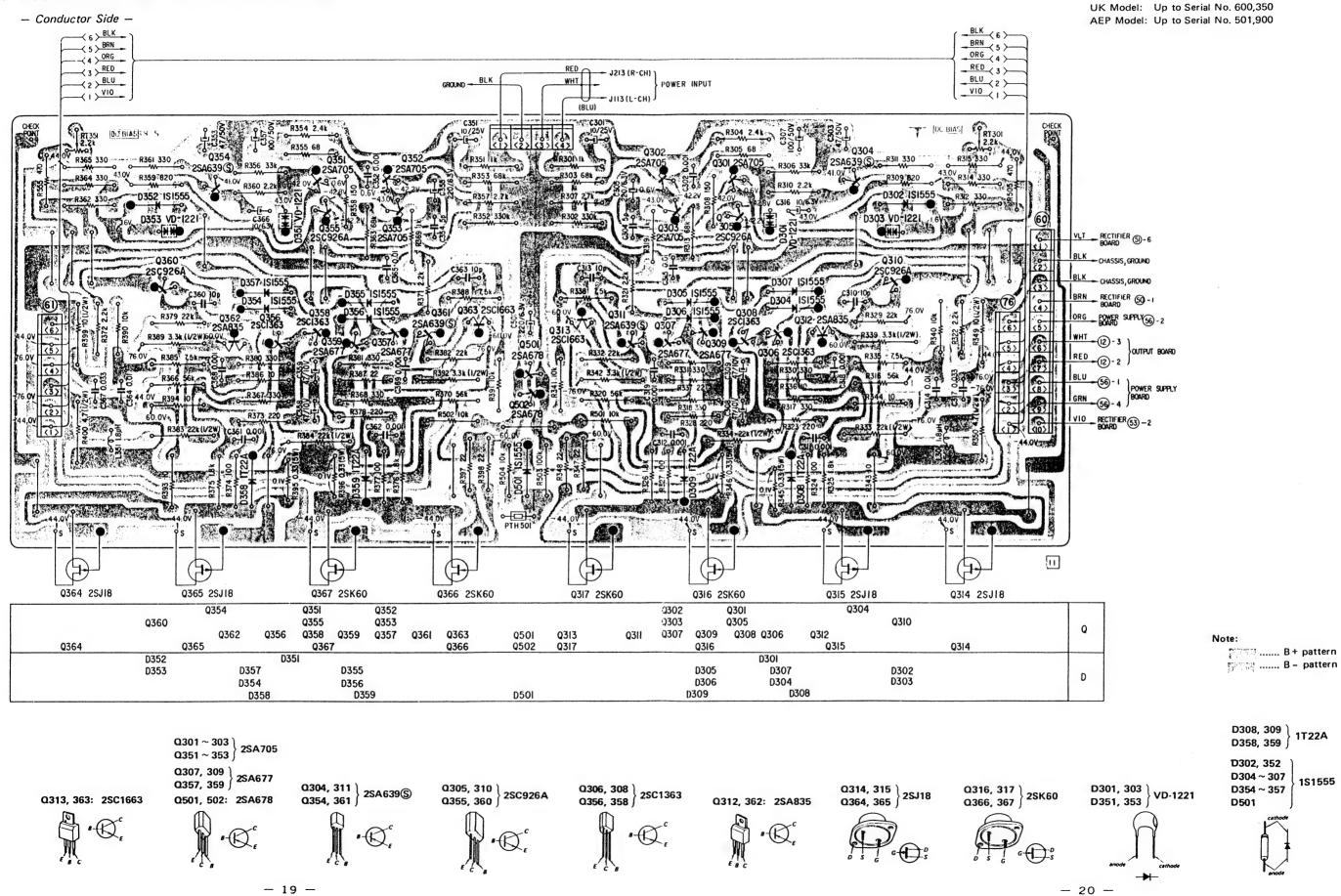
All resistance values are in ohms. k = 1,000, M = 1,000 k All capacitance values are in μF except as indicated with p, which means $\mu \mu F$.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

X



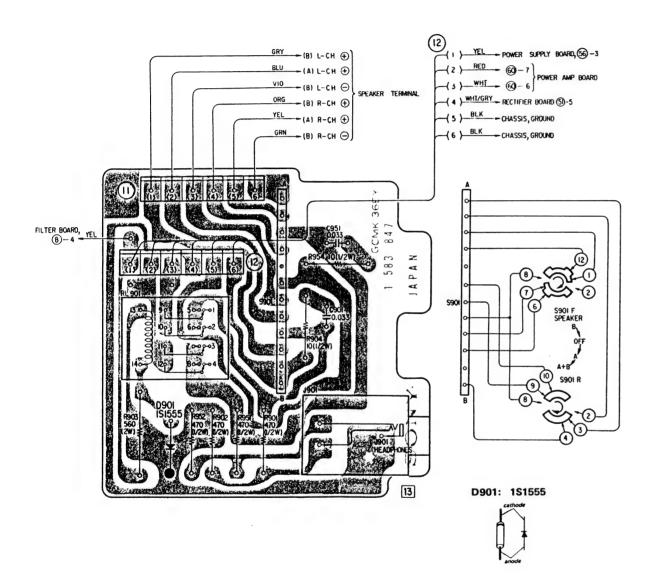




3-12. MOUNTING DIAGRAM - OUTPUT BOARD -

- Conductor Side -

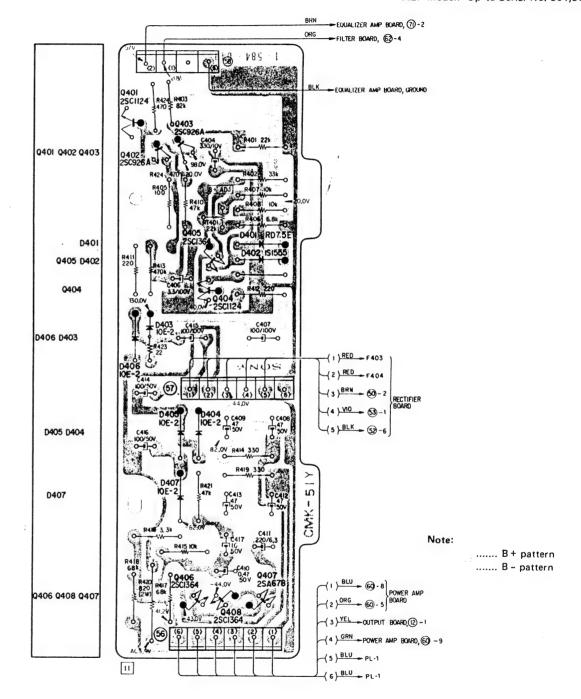
UK Model: Up to Serial No. 600,350 AEP Model: Up to Serial No. 501,900



3-13. MOUNTING DIAGRAM - POWER SUPPLY BOARD -

- Conductor Side -

UK Model: Up to Serial No. 600,350 AEP Model: Up to Serial No. 501,900



Q401, 404: 2SC1124 Q402, 403: 2SC926A

Q405, 406 Q408 2SC1364

Q407: 2SA678

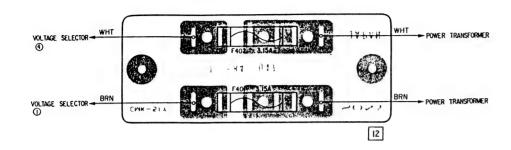
D402: 1S1555 D403~407: 10E-2

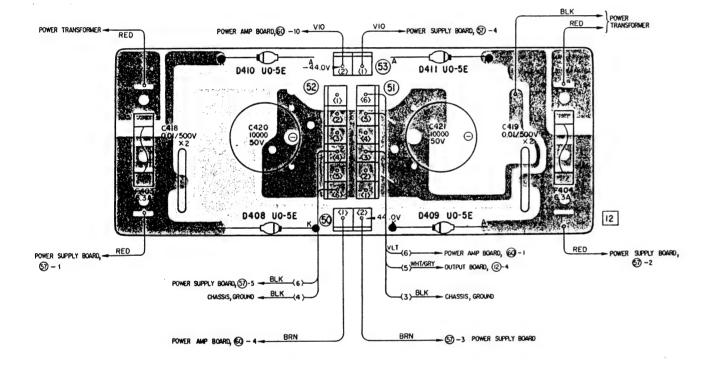
D401: RD-7.5E

\times

3-14. MOUNTING DIAGRAM - RECTIFIER/FUSE BOARDS -

- Component Side -



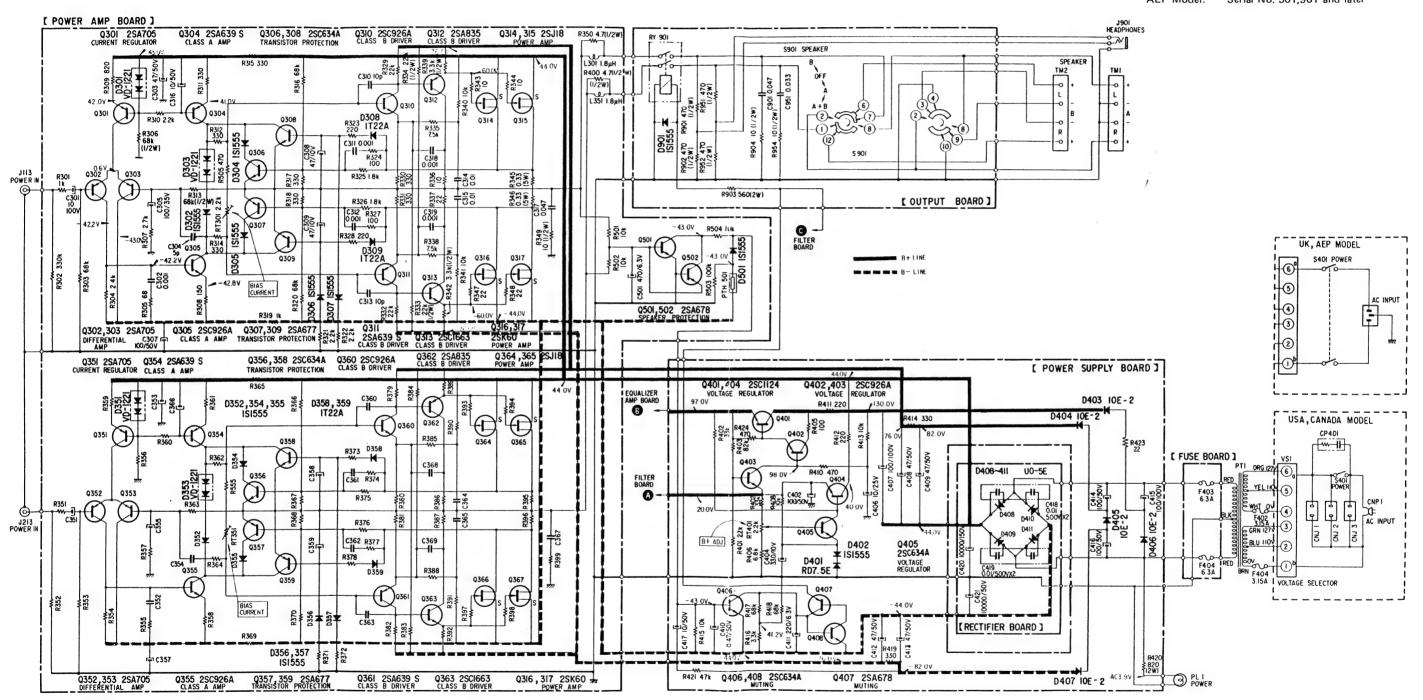


		D410, 411 UO-5
Note:	B + pattern B - pattern	cathode

MEMO	

3-15. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

USA Model: Serial No. 800,001 and later Canada Model: Serial No. 700,001 and later UK Model: Serial No. 600,351 and later AEP Model: Serial No. 501,901 and later



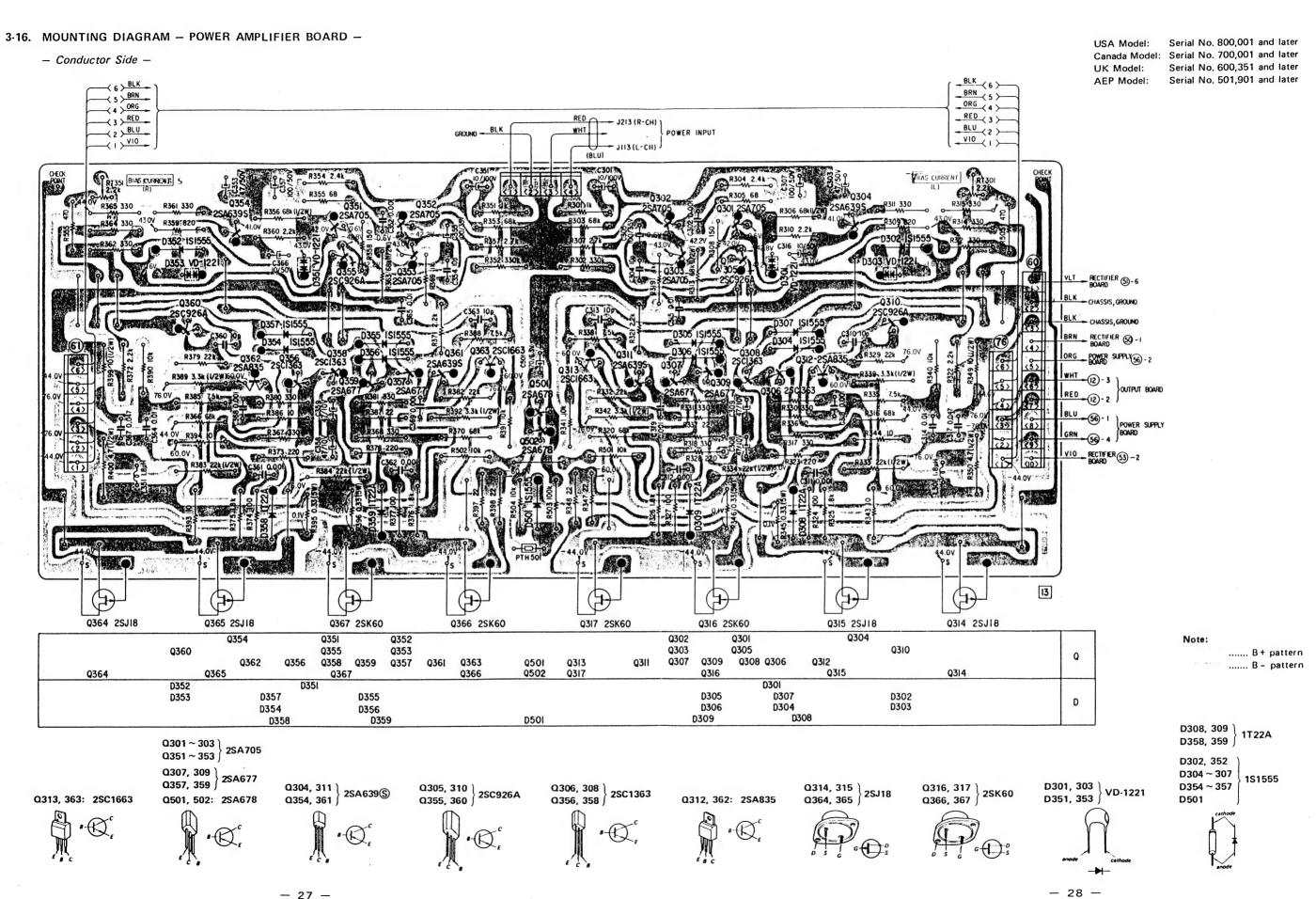
Note

All resistance values are in ohms. k = 1,000, M = 1,000 k All capacitance values are in μF except as indicated with p, which means $\mu \mu F$.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

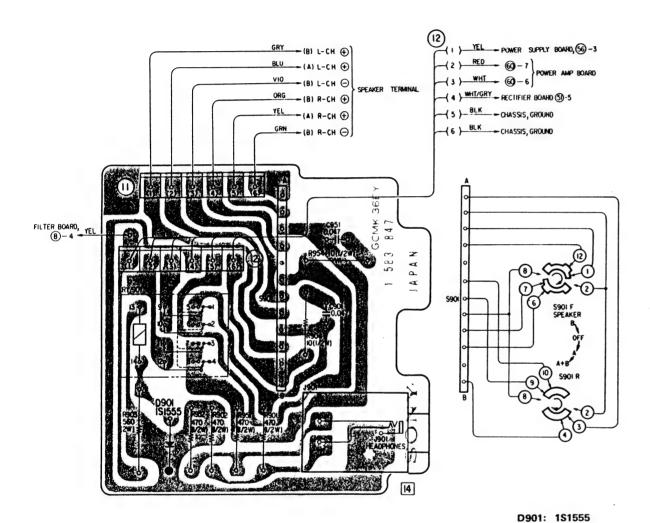




3-17. MOUNTING DIAGRAM - OUTPUT BOARD -

- Conductor Side -

USA Model: Serial No. 800,001 and later Canada Model: Serial No. 700,001 and later UK Model: Serial No. 600,351 and later AEP Model: Serial No. 501,901 and later

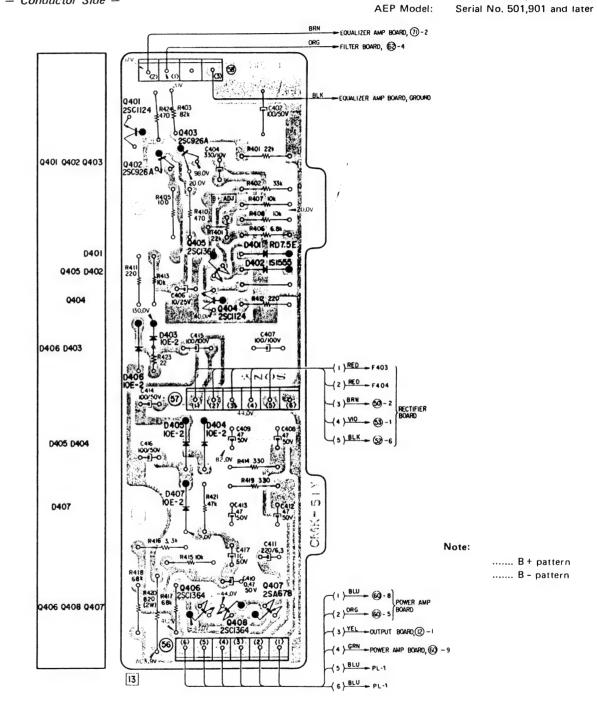


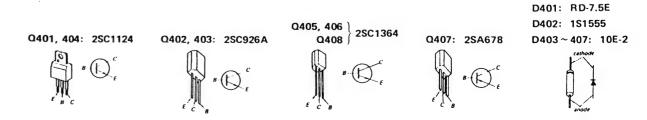


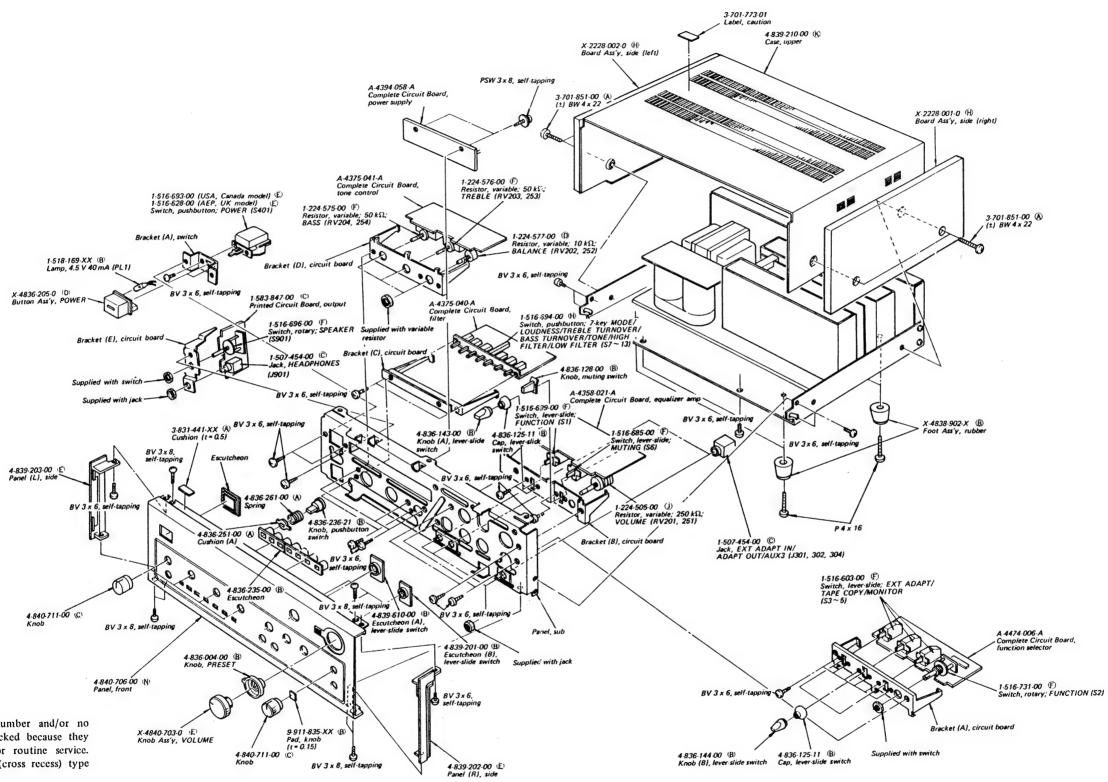
3-18. MOUNTING DIAGRAM - POWER SUPPLY BOARD -

- Conductor Side -

USA Model: Serial No. 800,001 and later Canada Model: Serial No. 700,001 and later UK Model: Serial No. 600,351 and later

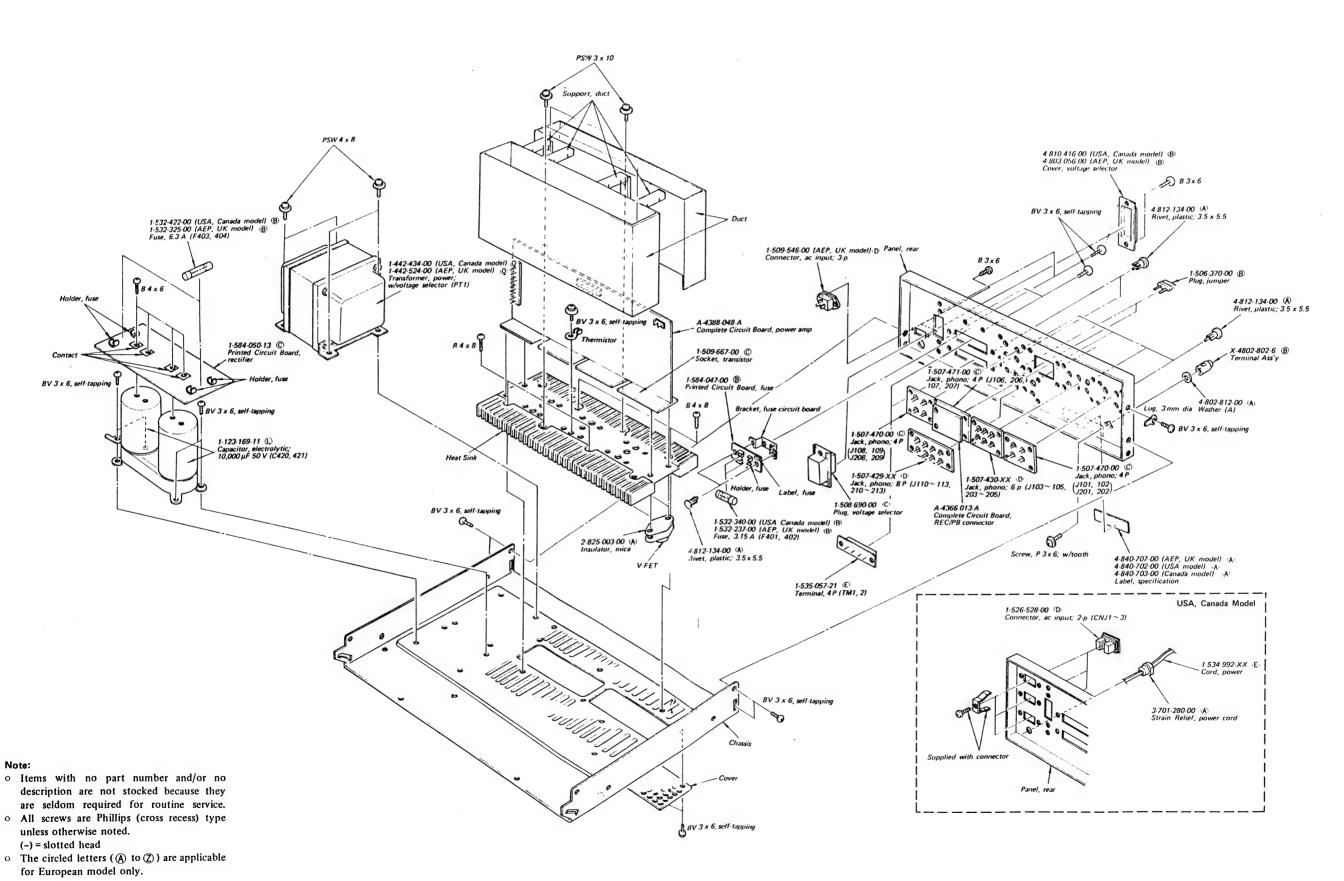






Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- o The circled letters (A) to (2) are applicable for European model only.



SECTION 5 ELECTRICAL PARTS LIST

Note: The circled letters ($\mbox{\Large (A)}$ to $\mbox{\Large (D)}$) are applicable for European model only.

Mark	Applicable Serial No.										
0	UK model: AEP model:	Up to Serial No. 600,350 Up to Serial No. 501,900									
	USA model: Canada model: UK model: AEP model:	Serial No. 800,001 and later Serial No. 700,001 and later Serial No. 600,351 and later Serial No. 501,901 and later									

Dof No	Dona Ma	Description	Ref. No.	Part No.		Description
Ref. No.	Part No.	Description	Kej. No.	Furt NO.		Description
	COMPLETE CIR	CUIT BOARDS	Q314,364		_	
			Q315,365		K	2SJ18
	A-4358-021-A	Equalizer Amp	Q316,366		_	
	A-4366-013-A	REC/PB Connector	Q317,367)		(1)	2SK60
	A-4375-040-A	Filter				
	A-4375-041A	TONE Control	Q401		C.	2SC1124
	A-4388-048-A	Power Amp	Q402,403		-	2SC926A
			Q404			2SC1124
	A-4394-058-A	Power Supply	Q405,406		$\widehat{\mathbf{B}}$	2SC1364
	A-4474-006-A	Function Selector	Q407		C	2SA678
			Q408		$^{\odot}$	2SC1364
	PRINTED CIRC	CUIT BOARDS	Q501,502		Ĉ.	2SA678
	1 502 047 00 6	ô		_		
		Output			Diode	es es
		B Fuse	D201.251		(F	VD1221
•	1-584-050-13	Rectifier	D301,351			VD1221
			D302,352 D303,353		-40	1S1555
	SEMICONI	DUCTORS	D303,333			VD1221
	SEMICONI	Juctona	D304~307)		<u>C</u>	1S1555
	Trans	istors				
			D308,358		(C	17774
Q101,151		B 2SC1636	D309,359		R	1T22A
Q102,152	(E) 2SK63				
		_	D401		-	RD7.5E
Q201,251		Ĉ 2SK23A	D402		_	1S1555
Q202,252		© 2SA705	D403~407			10E-2
Q203,253		Ĉ 2SK23A	D408~411		Ĉ	U05E
Q204,254	(1)	© 2SA705			_	
Q205,255 Q206,256	(©: 2SK23A	D501,901		B	1S1555
Q200,230			PTH501	1-800-340-21	(B	Thermistor (positive)
Q301~303	3	Ĉ 2SA705				
Q351~353 ⁾						
Q304,354		Ĉ. 2SA639S			coil	- ,
Q305,355		D 2SC926A				
Q306,356	(B 2SC1364	L301,351	1-407-592-00	Ā	Microinductor 1.8μH
Q307,357		© 2SA677				
Q308,358		B 2SC1364		TRAN	SFO	RMER
Q309,359		© 2SA677				
Q310,360		D 2SC926A	PT1	1-442-434-00	_	Power (USA, Canada model)
Q311,361	4	© 2SA639S	PT1	1-442-524-00	Q	Power (AEP, UK model)
Q312,362	,	Ē 2SA835				
Q313,363		D 2SC1663	1			

Note: The circled letters ((A) to (\overline{Z}) are applicable for European model only.

Ref. No.	Part No.	D	Descripti	ion	Ref. No.	Part No.	_	Descrip	tion
	CAPA	CITORS		1	C301,351	□ 1-121-748-11	A 10	25 V	
	All capacitors are	in uE and elect	trolytic	type		■ 1-121-126-11	A 10	100 V	1
	inless otherwise in		troty tie	,, pe	C302,352	1-108-227-12 1-123-058-11	(A) 0.001(A) 47	50 V	mylar
5	0 or less working	volts are omit	tted exc	ept	C303,353 C304,354	1-123-036-11	A 5p	30 V	ceramic
f	or electrolytic typ	pe. $(p = \mu \mu F)$			C304,334	1-102-007-11	W ab		ccrame
C001,002	1-102-074-11	A 0.001		ceramic		<u>-</u> 1-121-419-11	® 220	6.3 V	
	□ 1-121-748-11	A 10	25 V		C305,355	• 1-121-357-11	® 100	35 V	
C101,151	1-121-126-11	-	100 V		C307,357	1-123-059-11	B 100	50 V	
C102,152	1-108-227-12	(A) 0.001		mylar	C308,358	1 121 027 11	<u> </u>	10 V	
	o 1-121-659-11	® 2200	10 V		C309,359	1-121-927-11	B 47	10 V	
C103,153	⁽ ■ 1-121-361-11	B 470	35 V						
					C310,360	1-102-947-11	A 10p		ceramic
C104,154	1-103-743-11	B 0.0056		polystyrol	C311,361	1-108-227-12	0.001		mylar
C105,155	1-103-730-11	(A) 0.0016		polystyrol	C3'12,362'				,
C106	1-121-995-11	_	100 V		C313,363	1-102-947-11	A 10p		ceramic
C107,157	⁻ 1-105-729-12	_		mylar	C314,364	1-108-239-12	A 0.01		mylar
	■ 1-108-822-12	A 0.33		mylar	C315,365'		•		
C109,159	1-102-967-11	A 22p		ceramic			3 10		
		(A) a con			C316,366	1-121-469-11	(A) 10	6.3 V	
C201,251	1-108-591-12	(A) 0.033		mylar		■ 1-121-738-11 ■ 1-100-244-12	A 10	50 V	1
C202,252	1-102-973-11	A 100p		ceramic	C317,367	(= 1-108-244-12 = 1-108-868-12	(A) 0.033		mylar
C203,253	- 1 122 051 11	10	50 V		C318,368	1 -100-000-12	A 0.047		mylar
C205,255	1-123-051-11 1-121-126-11	(A) 10 (A) 10	100 V		C319,369	1-108-227-12	A 0.001		mylar
	■ 1-121-120-11	(A) 10	100 •		C317,307				
C206,256		_			C402	1 -121-417-11	B 100	50 V	
C207,257	1-108-555-12	(A) 0.001		mylar	C404	1-121-805-11	B 330	10 V	
C208,258		0				□ 1-121-995-11	A 3.3	100 V	
C209,259)	1-108-587-12	A 0.022		mylar	C406	1-121-398-11	A 10	25 V	
C210,260	1-108-591-12	A 0.033		mylar	C407	1-123-084-11	© 100	$100\mathrm{V}$	
C211,261	1-102-973-11	A 100p		ceramic	C408,409	1-123-058-11	B 47	50 V	
C212,262	1-121-736-11	B 1000	10 V		C410	1-121-726-11	A 0.47	50 V	
C213 263	o 1-121-914-11	B 3.3	50 V		C411	1-121-419-11	A 220	6.3 V	
0215,205	1-121-914-11		100 V		C412,413	1-123-058-11	B 47	50 V	
C214,264	1-108-559-12	A 0.0015		mylar	C414	1-123-059-11	B; 100	50 V	
C215 265	1 102 720 11	A 620p		polystyrol	C415	1-123-084-11	© 100	100 V	
C215,265 C216,266		A 0.056		mylar	C415	1-123-059-11	B 100	50 V	
C216,266 C217,267		A 0.022		mylar	C417	1-121-738-11	10	50 V	
C217,267		A 0.47	50 V		C418,419	1-102-355-11	A 0.01		ceramic
C219,269		(A) 0.001		mylar	C420,421	1-123-169-11	<u>[</u> 10000		
		<u> </u>		- U - U.			_		
C330 303	<u>- 1-121-914-11</u>	B 3.3	50 V		C501	° 1-121-419-11	B 220	$6.3\mathrm{V}$	
C230,280	1-121-995-11	® 3.3	100 V		(301	■ 1-123-077-11	B 470	6.3 V	
C231,281	1 -102-963-11	A 33 p		ceramic	C901,951	° 1-108-244-12	A 0.033		mylar
						■ 1-108-868-12	A 0.047		mylar

Note: The circled letters (A) to \mathfrak{T}) are applicable for European model only.

								ror Europe	anı	noder only.
Ref. No.	Part No.		_	Descrip	tion	_	Ref. No.	Part No.		Description
A.1		RESISTORS istors are in ohms. Regular type			S7~13	1-516-694-00	$\widehat{\mathbf{H}}$	Push, 7-key; MODE, LOUDNESS, TREBLE TURNOVER, BASS		
± 5	5%, ¼W carbon omitted.	and	composi	tion resi	istors					TURNOVER, TONE, HIGH FILTER, LOW FILTER
Ch res	sistance values.	tic d (k =	iagram fo 1000, M	or the = 1000 k	x)		S401	(1-516-628-09 (1-516-693-00		Pushbutton, POWER (AEP, UK model) Pushbutton, POWER (USA, Canada
R109,159	1-244-913-11	Â	47 k	1/2 W	carbon			1-310-093-00	<u> </u>	model)
	1-244-899-11	A	12 k	½ W	carbon					Modely
R209,259	1-244-879-11	A	1.8 k	1/2 W	carbon		\$901	1-516-696-00	Ê	Rotary, SPEAKER
R306,356	1-244-917-11	Â	68 k	1/2 W	carbon	,		ΔL	CK	s
R313,363	1-244-917-11	A	68 k	$\frac{1}{2}$ W	carbon			5,		
R333,383	1-244-905-11	•	22 k	35 W	carbon	1	CNJ001	1-509-549-00	R	Connector, REC/PB
R334,384	1-244-903-11	B	22 K	72 W	Carbon		CNJ1~3	1-526-528-00	_	Connector, ac; 2-p (USA, Canada
R339,389 R342,392	1-211-650-11	A	3.3 k	½ W	carbon				_	model)
1342,392								1-509-546-00	D	Connector, ac; 3-p (AEP, UK model)
R345,395	1-217-157-11	A	0.33	5 W	wire-wound		J101,201	1-507-470-00	Ĉ	Phono, 4-p; PHONO 1, 2
R346,396'	1-211-590-11	A	10	1/2 W	carbon		J102,202'	1307 170 00	9	Thene, 1 p, 1
R349,399			4.7	1/2 W	carbon		J103~105	1-507-430-XX	D	Phono, 6-p; TUNER, AUX 1, 2
R350,450	1-244-817-11	A	4.7	72 11	Caroon		J203~205'	100, 100,111	•	mone, e p, renzi, men i, r
R420	1-206-662-11	A	820	2 W	metal oxide		J106,206 J107,207	1-507-471-00	Ĉ	Phono, 4-p; TAPE 1, REC OUT 1
R901,951 R902,952)	1-244-865-11	A	470	1/2 W	carbon		J108,208 J109,209	1-507-470-00	Ĉ	Phono, 4-p; TAPE 2, REC OUT 2
R903	1-206-658-11	A	560	2 W	metal oxide		J1109,209 J1110~113			Phono, 8-p; EXT ADPT 2,
R904,905	1-211-590-11	_	10	⅓2 W	carbon		J210~213)	1-507-429-XX	D	PRE OUT, POWER IN
RT301,351 RT401	1-224-489-00 1-224-250-XX	_	2.2 k 2.2 k		adjustable adjustable		J301,302 J304)	1-507-454-00	Ĉ	EXT ADAPT IN, ADAPT OUT, AUX 3
	1-224-505-00	_	250 k		ariable; VOLUME		J901	1-507-454-00	Ĉ	HEADPHONES
	1-224-577-00	-	10 k		ariable; BALANCE					
	1-224-576-00	_	50 k		ariable; TREBLE					
RV204,254	1-224-575-00	Ê	50 k	V	ariable; BASS			MISCEL	LA	NEOUS
	SW	ITCI	HES				CP401	1-231-057-31	.B	Encapsulated Component (USA, Canada model)
	1.516.600.00	Ê	1	ua. EU	NCTION:		F401,402	(1-532-340-00	_	Fuse, 3.15A (USA, Canada model)
S1	1-516-699-00	-	Rotary		INCTION		01, 102	1-532-237-00	_	Fuse, 3.15A (AEP, UK model)
S2	1-516-731-00 1-516-603-00	_			TION T ADAPT, TAPE		F403,404	1-532-325-00	_	Fuse, 6.3A (AEP, UK model)
S3~5	1-210-003-00	Ĺ		PY, MO			,	1-532-422-00	B	Fuse, 6.3 A (USA, Canada model)
S 6	1-516-685-00	Ē	Lever-s				PL1 RY901	1-518-169-XX 1-515-257-00	_	Lamp, 4.5 V 40 mA Relay
						•	,01	2 2 2 20 , 00	0	



Note: The circled letters ($\mbox{\Large (A)}\mbox{ to }\mbox{\Large (Z)}\mbox{\Large)}$ are applicable for European model only.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
TM1,2	1-535-057-21 1-506-370-00	(E) Terminal, 4-p (B) Plug, jumper		ACC	ESSORIES
	1-508-690-00	© Plug, voltage selector		1-506-113-00	A Plug, short
	1-509-667-00	© Socket, transistor		1-534-819-11	E Cord, power (UK model)
	1-534-992-XX	E Cord, power (USA, Canada model)		1-534-754-12	E Cord, power (E model)
				3-780-566-11	Manual, instruction (Canada, UK and AEP model)
				3-780-566-21 3-793-520-82	(E) Manual, instruction (USA model) (A) Card, guaranty (UK model)